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JANUARY 16, 2001

PTAS

AT&T CORP.  
SAMUEL H. DWORETSKY  
P.O. BOX 4110  
MIDDLETOWN, NJ 07748-4110



\*101519813A\*

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RECORDATION DATE: 10/31/2000

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ASSIGNOR:

BENITEZ, ANA B.

DOC DATE: 10/04/2000

ASSIGNOR:

CHANG, SHIH-FU

DOC DATE: 10/09/2000

ASSIGNOR:

PAEK, SEUNGYUP

DOC DATE: 10/09/2000

ASSIGNEE:

COLUMBIA UNIVERSITY IN THE CITY OF  
NEW YORK  
116TH STREET & BROADWAY  
NEW YORK, NEW YORK 10027

SERIAL NUMBER: 09495175

FILING DATE: 02/01/2000

PATENT NUMBER:

ISSUE DATE:

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011234/0043 PAGE 2

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Document Number: 2000-0025

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## Conveying Party(ies)

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Name (line 1) Ana B. Benitez

Name (line 2)

Execution Date

MMDDYYYY

10/04/2000

## Second Party

Name (line 1) Shih-Fu Chang

Name (line 2)

Execution Date

MMDDYYYY

10/09/2000

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Name (line 2)

Address (line 1) 116th Street &amp; Broadway

Address (line 2) New York, New York 10027

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<b>NAME</b>	Samuel H. Dworetzky		
<b>ADDRESS</b>	AT&T CORP. P.O. Box 4110		
<b>CITY</b>	Middletown	<b>STATE</b>	New Jersey
<b>COUNTRY</b>	United States of America	<b>ZIP CODE</b>	07748-4110
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Patent Application Number(s)

Patent Number(s)

09/495175

If this document is being filed with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number  
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**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$40.00

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Deposit Account

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**STATEMENT AND SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

<b>NAME</b>	Thomas A. Restaino		
<b>TELEPHONE</b>	908-221-5720		
<b>SIGNATURE</b>	<i>Thomas A Restaino</i>	<b>DATE</b>	10/27/2000

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:

Type or Printed Name	Anne M. Ferraro	Signature	<i>Anne M Ferraro</i>	Date	10/27/2000
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**PATENT**

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Name (line 1)	Seungyup Paek	Execution Date MMDDYYYY 10/09/2000
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Name (line 1)		Execution Date MMDDYYYY
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	City, State/Country Zip Code	
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Address (line 1)		
Address (line 2)		
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	City, State/Country Zip Code	

**Application Number(s) or Patent Number(s)**☐ Mark if additional numbers are attached*Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).*

Patent Application Number(s)	Patent Number(s)

ASSIGNMENT

WHEREAS, WE, ANA B. BENITEZ, SHIH-FU CHANG, and SEUNGYUP PAEK, citizens of the Spain, Taiwan, and the United States of America, respectively whose post office addresses are 400 W. 119th Street, Apt. 9F, New York, New York 10027, 560 Riverside Drive, Apt. 18K, New York 10027, and 530 Riverside Drive, Apt. 6J, New York, New York 10027, respectively, have made an invention for which WE have applied for Letters Patent of the United States entitled "MULTIMEDIA INTEGRATION DESCRIPTION SCHEME, METHOD AND SYSTEM FOR MPEG-7" filed February 1, 2000 as application serial no. 09/495,175, and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "COLUMBIA"), a corporation organized and existing under the laws of the State of New York, and having an office for the transaction of business at 116<sup>th</sup> Street & Broadway, New York, NY 10027, is desirous of acquiring our entire right, title and interest in and to said invention and any improvements thereon, and in and to application for Letters Patent therefor, and any Letters Patent which may be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that ANA B. BENITEZ, SHIH-FU CHANG, and SEUNGYUP PAEK for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, in hand paid by COLUMBIA, and other valuable considerations unto us moving from COLUMBIA, at or before the ensembling and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto COLUMBIA, its successors and assigns, our entire right, title and interest in and to the said invention for which we are about to make application for Letters Patent of the United States entitled "MULTIMEDIA INTEGRATION DESCRIPTION SCHEME, METHOD AND SYSTEM FOR MPEG-7" as set forth and described in application serial no. 09/495,175, for Letters Patent of the United States and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, ANA B. BENITEZ, SHIH-FU CHANG, and SEUNGYUP PAEK do hereby authorize and request the Commissioner of Patents and Trademarks to issue Letters Patent of the United States to said COLUMBIA, as the assignee of our entire right, title and interest in and to the same, for the use and benefit of said COLUMBIA, its successors and assigns;

IN WITNESS WHEREOF, WE, ANA B. BENITEZ, SHIH-FU CHANG and SEUNGYUP PAEK have hereunto set my hand and seal on the date below written.

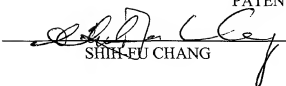
ANA B. BENITEZ

BE IT KNOWN, that on this 4 day of Oct., 2000, before me personally came ANA B. BENITEZ to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Notary Public

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PATENT

  
 SHIH-FU CHANG

STATE OF NEW YORK )

: SS.:

COUNTY OF New York

BE IT KNOWN, that on this 4 day of Oct., 2000, before me personally came SHIH-FU CHANG to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

  
 Notary Public

**FLORENCE J. GRANT**  
 Notary Public, State of New York  
 No. 31-4666482  
 Qualified in New York County  
 Commission Expires March 30, 2002

  
 SEUNGYUP PAK

STATE OF NEW YORK )

: SS.:

COUNTY OF New York

BE IT KNOWN, that on this 9<sup>th</sup> day of October, 2000, before me personally came SEUNGYUP PAK to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

**RAMESHCHANDRA R. JHAVERI**  
 Notary Public, State of New York  
 No. 41-4988830  
 Qualified in Queens County  
 Commission Expires Nov. 18, 2001

  
 Notary Public